

AMENDMENTS TO THE SPECIFICATION:

Please amend the specification to read as follows:

Page 28, first paragraph:

--As shown in FIG. 5, the bottom surface 27 of plate 2, preferably has a porous, roughened, and/or textured surface layer and may be coated with, impregnated with, or comprise of fusion promoting substances (such as bone morphogenetic proteins) so as to encourage the growth of bone along the underside of the plate 2 from vertebrae to vertebrae. The textured bottom surface 27 also provides a medium for retaining fusion promoting substances with which the bottom surface 27 layer can be impregnated prior to installation. The bottom surface 27 of plate 2 may be given the desired porous textured form by rough blasting or any other conventional technology, such as etching, plasma spraying, sintering, and casting for example. If porous, the bottom surface 27 is formed to have a porosity or pore size in the order of 50-500 microns, and preferably 100-300 microns. Fusion promoting substances with which the porous, textured bottom surface 27 can be impregnated include, but are not limited to, bone morphogenetic proteins, hydroxyapatite, or hydroxyapatite tricalcium phosphate. The plate 2 may comprise of at least in part a resorbable material which can further be impregnated with the bone growth material so that as the plate 2 is resorbed by the body of the patient, the bone growth material is released, thus acting as a time release mechanism. Having the plate 2 being made from a material that is resorbable and having bone growth promoting material present permits the vertebrae to be fused in a more natural manner as the plate becomes progressively less load bearing thereby avoiding late stress shielding of the spine. One example of a resorbable material is polyglyconate.--